COMPONIENT Publication No 75 Aug 14 – 20 1984

Dune Buggy,

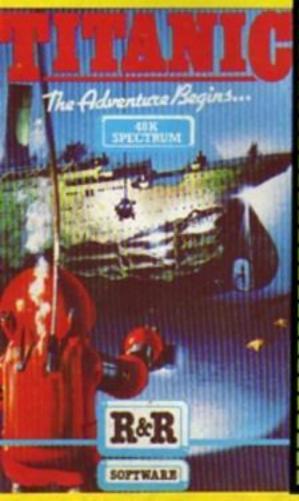
the new ast-action game from Mushroom Software

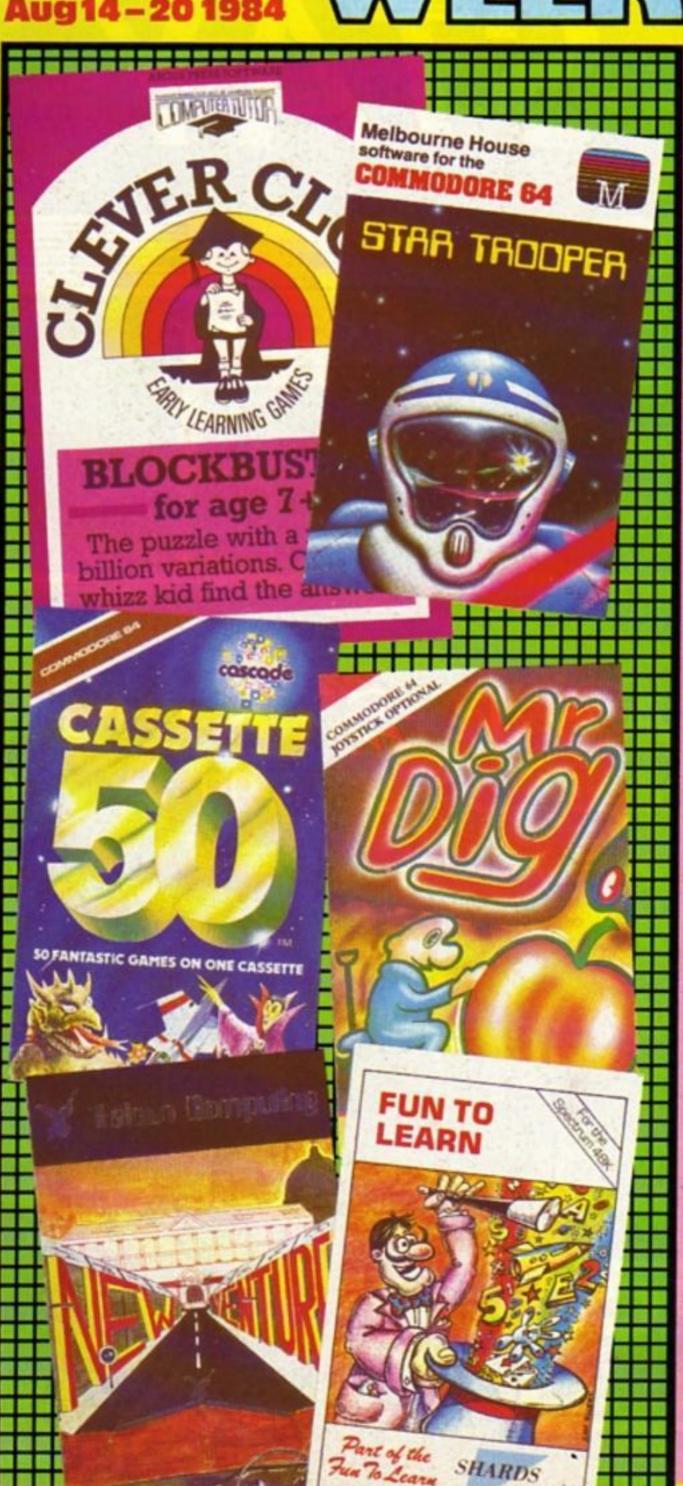
Software Reviews for: Spectrum, BBC, Electron, TI, Sord, CBM 64

Spectrum Special Three great games to type in

BBC
Sharpen your
gnashers with
our Splurge Eater
game!

PLUS your letters, software charts news...





Judo star in micro show

Judo star Brian Jacks is to feature in a new BBC TV series about computers.

He will represent Mr Average as he and his wife Julie go through the process of buying a computer and learning how to use it, particularly to help their son Philip, aged five.

The new series, Micro Live, starts on October 5 at 6.30pm on BBC 2 with presenter Ian McNaught-Davis and director Patrick Titley.

Micro Live will be monthly, followed by a two-hour live show in the summer and then the series goes weekly.

Regular reports will come from a character in New York called Freff and ex-Blue Peter presenter Lesley Judd will report on UK events.

Among the items in the first show is a review of printers for home computers, a feature on the break-up of AT&T, the US phone company, on the eve of the liberalisation and Continued on page 5

Card to foil pirates

A credit card can help stop software piracy, says Rising Edge Data (RED) which has developed a protection system.

Development has taken many months and started because Abacus programs, which owns RED, like many other software publishers, is losing money to the pirates.

RED is a simple system, claimed to be fool-proof, that can be adopted by any software company or programmer and, while it prevents mass copying, it still allows the computer enthusiast to make back-up copies.

The secret of RED is in the digitised security card which is the same size and shape as a credit card. The reader unit, which plugs into the computer, prevents the program from being run until the system is activated by the RED card.

Each card carries a magnetic coding, identical to a program code written into the software for the particular game. Only when the computer can match Continued on page 5

HERE TO STAY





TEXAS INSTRUMENTS HOME COMPUTER TI-99/4A £89.00

Console: 9900 Family, 16-bit microprocessor, plus 256-byte scratchpad RAM.

Memory: Total combined memory capacity: 110KBytes. Internal ROM memory supplied: 26KBytes. External ROM memory: (Solid State Software command modules) up to 36KBytes each. RAM memory supplied: 16KBytes (Expandable to 48KBytes). Keyboard: 48 key OWERTY with control and function keys (user definable), full upper and lower case capability, alpha lock, auto repeat.

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August 14-August 27, 1984 No. 75

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THE JOURNEY

THE ADVENTURE **OUT SOON** FROM Temptation

REGULARS

game, and other software

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Software charts Our exclusive guide to best-selling arcade and non-arcade soft plus Top 10s for six home micros	. 10 ware,
Mushroom Software competition Spot the differences and you could win Dune Buggy, a great	. 15

The things you say to us. Don't forget, there's free software for the best letters

Control of the Contro						
Classified	ads start on		 -	-	ene.	28

SOFTWARE REVIEWS

School's	OU	t.																								. (6
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learn, so the																			Ĭ								

Play the games... then try the utilities. But read what our reviewers say first

A selection of games for the Commodore 64, Spectrum and TI-99/4A



PROGRAMS

Spectrum special:

Good value for money for Spectrum-owning readers. Here's three fast-moving games to type in, all with good graphics and imagination

BBC

Sharpen your gnashers with this tasty game by a Home Computing Weekly regular (so it's bound to be good!)

Readers: Your programs and articles can earn cash (and the admiration of your friends!). Send them to us for evaluation by experts

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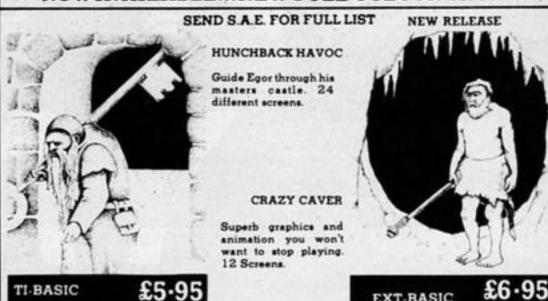
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We are offering a prize of £1,000 for the best arcade game program submitted to us by August 31, 1984 for either the 48K Spectrum, Commodore 64 or Amstrad. The program must be your own copyright which will be assigned to us on presentation of the award. The winner will also receive royalties based on our normal, escalating royalty package, for all copies of the program sold for any home computer. To enter, submit a copy of the program together with full operating instructions to:

R M Summers

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NEWS

Judo

From front page

privatisation of British Telecom.

Mr Titley said the series would cover the whole world of information technology: "Everything that has a chip in

Card

From front page

the code on the RED security card with the code on the tape, does it allow the game to commence.

This means that although tapes can be copied, the program will not run without a RED card - making it useless to pirates.

Managing director Cathie Shaw said: "The ideal situation would be where every person who has a home computer would also have a RED system - then we would have total software protection."

Mrs Shaw explained that the cost for RED on a business system was somewhere in the region of £20 and said: "But the cost for a home computer will be proportionally less - and I expect it to be about £4."

Cost of the software should not alter. According to Mrs Shaw: "The cards are very inexpensive, and should easily be absorbed within the profit margins of software companies?"

Rising Edge Data, 716 Llangyselach Road, Swansea

Sounds great!

Use your Spectrum to create new sounds. Just out from dk'tronics: Beep Amplifier. with volume control (£14.95) and Three-channel Sound Synthesizer (£29.95).

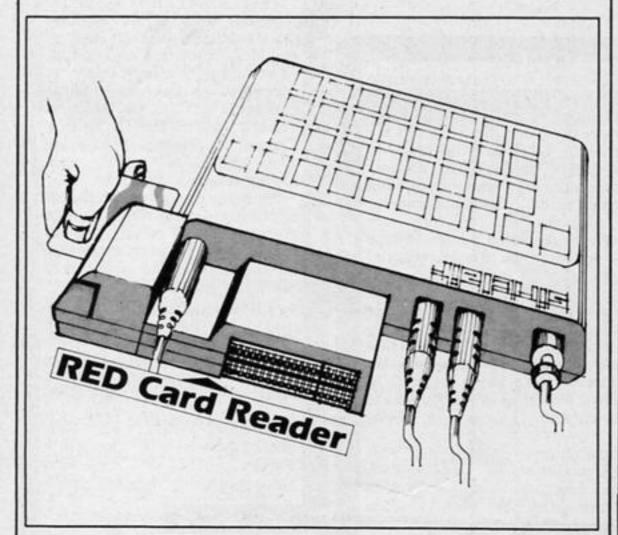
The synthesizer incorporates the beep amplifier to improve sound quality and output. This interface means you can program your own music over a complete eight-octave range as well as control three channels of tone and/or white noise.

dk'tronics, Unit 6, Shire Hill Ind Est, Saffron Walden, Essex CB11 3AO

All clued up

Adventure games are gaining in popularity, and the big test for software houses is to find one that stands out from the crowd. Soft Concern thinks that The Code does just that — "it's an adventure game with a difference'; is the claim. The added incentive to complete the game is a cash or computer equipment prize worth £2,500 for the first correct entry.

The Code runs on the 48K Spectrum and costs £9.95. When you play the game, you're thrown into a spy thriller scenario. Your time is limited and your mission is to piece together clues and move between the four levels to reach the code room. This is where the real puzzle begins. Hazards you encounter are enemy agents, time bombs and red herrings.



RED's "credit card" system in action

Soft Concern is doing its bit to thwart piracy by coding all copies of the cassette together with the buyer's name and address. If you order by mail, your cheque must have your banker's card number on the back.

Soft Concern, PO Box 65, Warwick CV34 4JY

Summer releases from Shards include Operation Safras for the Dragon. Promoted as the long awaited sequel to Pettigrew's Diary, Shards claims it has some of the best sound and graphics available for the Dragon, as well as over 90K of mystery and suspense and a free music tape offer. Price: £7.95.

Shards, Roycraft Hse, Linton Rd, Barking, Essex

Three new games from Kerian: Crystal Frog, Motorcycle Crazy! and Meltdown. They cost £5.95 each and run on the 48K Spectrum. Crystal Frog and Motorcycle Crazy! are adventures, while Meltdown is an arcade game.

Kerian, 29 Gisburn Rd. Hessle. N Humberside HU13 9HZ

You may remember reading about Database's Micro Olympics. Well, now it's available for the Commodore 64 and Spectrum as well as the Russians. Perhaps this game will be one small step to promoting world harmony, even if the Olympics fail to do just that...

Database, Europa Hse, 68 Chester Rd, Hazel Grove, Stockport SK7 5NY

Argus Press Software has launched a series of programs called Mind Games. Three are now on general release, and nine more will be ready by September. They're games of strategy, and the first three are science fiction based. Orion Quest, Quest for Eternity and Star Force Seven have one thing in common: you are in a hostile universe and you have to think your way out of your problems. Initially available for Spectrum. BBC and CBM 64, they cost £7.99 for the Spectrum and £9.99 for BBC and Commodore versions.

Argus Press Software, No. 1 Golden Square, London WLR 3AB





16K ZX81 Here is a selection of titles still available for ZX81. Send s.a.e. for illustrated catalogue. These are the ZX81 equivalents of the Spectrum programs described above. Although similar in concept the specifications fall short of the descriptions given for the Spectrum.

"FOOTBALL-LEAGUE" Forerunner of "Day of the Match" £4.00 "TEST-MATCH" Forerunner of "Ball by Ball"

VIDEO SOFTWARE LTD., Stone Lane, Kinver, Stourbridge, West Midlands Telephone: 0384 872462

SOFTWARE FOR SPECTRUM AND ZX81

48K SPECTRUM

"Day of the Match" Fascinating and realistic simulation of an entire football season. Name your own teams if you wish (English league provided on cassette). Rate each team from one to nine in various success categories such as attack, defence, manager, etc. Watch the season unfold, includes knock-out option.

"Ball by Ball" Simulates a test match series of one day international series. Set up your own teams and pool of players (England v Australia provided). Rate each player's capabilities as batsman and bowler on a one to nine scale for qualities such as talent, effort etc. Pick your teams and play the match. Electronic scoreboard shows progress of a match. Full supporting score card and series averages.



Fun to Learn 6 - 12**48K Spectrum** £6.95

An invitation to enter your name precedes Menu offering games, option to change screen writing speed, user's name and see total score.

Count has a number of letters which you must count. Correct answers play a short tune but wrong answers bring a deep tune and some comment, followed by replay option or return to Menu.

Mixer, a word recognition game, allows you or the computer to choose anagrams. One-letter can be requested, which lessens the score. It's a shame upper case is used.

Calculation is where numbers up to four figures entered by the

player are calculated by the computer offering the four rules - unfortunately not in | scholastic vertical format.

Starship is a form of Hangman, where an alien zaps a building with every mistake, or your spaceship when you fail, while the ship zaps an alien if you are correct.

Codebreaker allows decoding or coding of a word with one of three codes on screen (or your made-up one) or the computer codes or decodes it for you.

Large redefined character set is used throughout. T.W.

instructions	80%
ease of use	80%
display	75%
value for money	60%

Billy Ball Plays Catch TI-99/4A £6

Stainless, 10 Alstone Rd, STockport, Cheshire

Another game featuring an amusing character by the name of Billy Ball. Last I saw of him he was at a hatchery, here he's busy playing catch,

Various items fall down the screen, one at a time, and Billy must catch them. If he misses three times, he will lose a life.

A fierce green monster tries to stop our little friend, so Billy may either evade him by climbing ladders and jumping from platforms, or take more positive action by punching him, should he come too close for

comfort. The monster sometimes goes rather red in the face, however, and speeds up his chase for revenge.

If Billy successfully catches, a box at the bottom of the screen is filled in. When all have been filled he progresses to more difficult screens.

All have superb graphics, which compensate for the somewhat slow action during the game's initial stages, but things definitely "hot up" after the fourth screen. Needs Extended BASIC, joystick.

instructions	90%
playability	80%
graphics	90%
value for money	100%

Maths Utilities Library **48K Spectrum** £8.95

Solway, 6 Curzon St, Maryport, Cumbria CA15 6LL

A combination of Solway's three utilities packs - with a saving of £1.55 - which can only be used on a 48K machine. If the programs halts at any time due to an error correction it can be restarted by entering RUN 5.

The contents offers graph ! plotter, linear regression, mean; and standard deviation, zeroes of functions, rectangular and polar co-ordinates, circular geometry, triangle solution, regular polygon solution, numerical integration, change of bases, simultaneous equations and quadratic equations. It is not a teaching program — its use is in producing solutions quickly to problems.

Each section-ending allows return to Contents — shown by a green 'r' screen top right - or to repeat that section.

The instructions are carefully planned to take you through from start to solution, and each program is accessed by pressing the appropriate key shown on the contents list display.

My copy was pre-production, accompanied by 16 A4 sheets of explanation, so I would be interested in seeing how those explanations reduce on to a cassette insert — or will a printed booklet replace them? Fair use is made of the Spectrum's potential of music, colour and memory.

instructions ease of use display value for money

75% 65% 50% 60%

T.W.

School's out for summer

Use the summer break to reinforce your child's education with these programs. It's fun to learn, so they say

Blockbuster 48K Spectrum £7.95

APS, No. 1 Golden Square, London WIR 3AB

In this Computertutor program Clever Clogs comes on screen flashing "Hello"; giving his name to the accompaniment of music end program facilities. and asking for your name. Music announces instructions, which stretches the brain and teaches take up six screens. A menu offers choice of Whacky Blockbluster - where the computer the questions can easily be explains how to go about it; Blockbuster - where you play; and Blockbuster Quiz - where answering 12 questions correctly allows you to see one way to instructions complete the puzzle.

Layout, colour, sound, graphics graphics and movement are superb making this program a pleasure to play and addictive.

The object is to make a rectangle out of 12 blocks. A box is 3 provided to enable you to flip a piece over, and the five levels are sensibly labelled from easy, to almost impossible (other programmers take note) and relate to the rectangle's shape.

You can quit at any time - or save a completed puzzle on tape - and are then offered replay or

This program, for age 7+, shapes, relationships and coordinates. A useful facility is that altered. A prize is offered to those who send in two answers to level four. T.W.

playability value for money 90% 85% 85% 75%

Shipshapes **48K Spectrum** £7.95

APS, No. 1 Golden Square, London W1R 3AB

This colourful Computertutor program, for use by parent and child, contains five games with machine code animation and lively graphics to encourage shape recognition.

My queries would be the inclusion of names in Shapemaker. After inputting up to 10 sides the computer draws the shape on screen with its name knowing three-year-olds nonagons! and Pattern Maker has shapes which can be moved by using cursor keys — why?

That aside, it's a pretty program which would entrance. three-year-olds with its use of graphics, animation and sound. After using this they ought to recognise triangles, circles, diamonds, squares and oblongs. Superb horizontal scrolling: "turns" the pages and the Index gives choice of games, each having simple instructions.

Shapesorter has small shapes appearing in a box which must be given a name - correct answers cause Clever Clogs to smile with a pleasant tune, but wrong ones make him grimace.

Shipshapes is a game where a helicopter flying over a ship can be made to drop various shapes, depending upon which keys are pressed, on to a ship before it sails.

65% instructions 70% ease of use 80% display 60% value for money

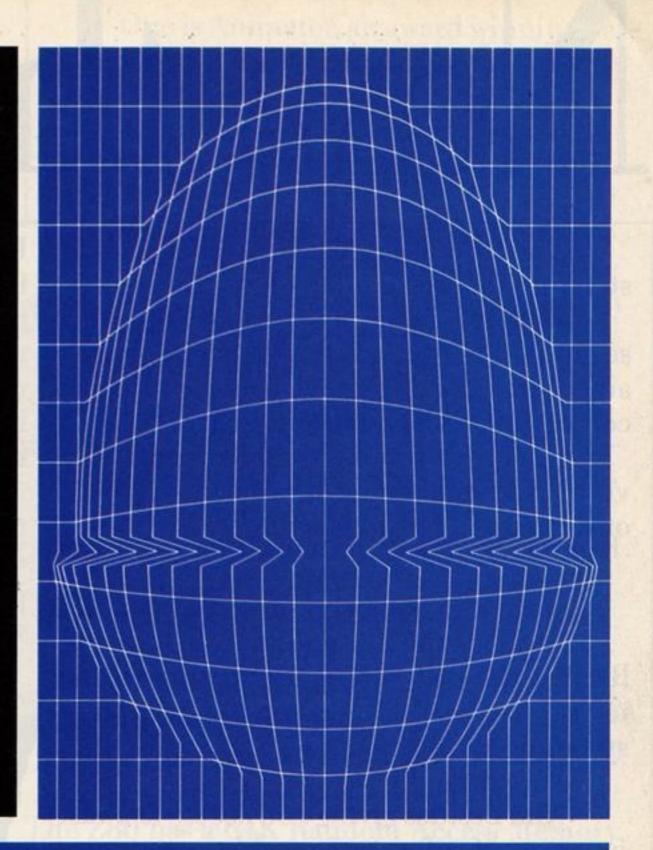
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OLYMPIA AUGUST 1984

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* Please note 10am to 2pm on Thursday 16th is Trade Morning – By invitation only.



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The success story of Acorn Computers, the BBC Micro and Electron is mirrored by suppliers who have produced more and more hardware, software, supplies and services. And they'll all be at the exhibition – disk drives, plotters, printers, monitors, joysticks, robots, books and magazines, all kinds of software – everything for the Acorn owner.

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Remember this is the Official Acorn User Show, it's the most informative prestigious and influential user show in the country. Whether you're a businessman, serious user or games enthusiast there's something for you.

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Now, the BBC

The BBC Micro has now taken a giant step into the world of business computing.

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As most business computer users can verify, CP/M is the most widely used form

of software in business today.

For £299, you're well and truly in business.

At £299, the Z80 adds 64K of usable RAM to the BBC Micro. And it allows you to use the CP/M 2.2 computer operating system.

It's extremely fast.

And besides giving you access to a vast new area of software, it enables you to use GSX graphics-based programs, the perfect complement to the BBC Micro's own superb graphics.

Free software and languages.

The Z80 second processor comes complete with five CP/M business programs.

To handle your word processing, there's MemoPlan. It's a program with some highly sophisticated features, such as a safeguard against data loss through power cuts and the ability to show two documents simultaneously on the screen.

To form your CP/M personal database, there's FilePlan. It stores names, addresses, telephone numbers, stock listings and more. And if you use it with MemoPlan, you can generate personalised letters, labels

and mail shots.

To produce forecasts and analyse groups of figures diagramatically, simply use the GraphPlan program. This is incredibly helpful in working out vital business calculations, converting them into graphs and charts.

Meanwhile, in the book-keeping department, there's the Accountant program. Use it to enter day-to-day transactions into the computer. Then, at any time, you can ask the computer to produce lists, summaries, reports, audit trails and trial balances. You can readily expand this package to a fully ledger based system, complete with payroll and more.

Finally, to help you to develop your own programs without having specialised experience, the Z80 comes with another software package called Nucleus. It's a system generator which asks you

questions and uses your answers to enable the system to write the program.

You can use Nucleus directly with the Accountant program, or for specialised personal or business activities.
Additionally, the Z80 package enables you to use three programming languages.

Your BBC Micro instantly becomes multi-lingual.

To simplify writing your own software with the Z80, there's BBC BASIC.

For running professionally written business programs, there's Professional BASIC.

And then there's CIS COBOL, the leading microcomputer version of COBOL, the language used in mainframe computer applications throughout commerce and industry.

With CIS COBOL, the Z80 also gives you two sophisticated programming aids.

CP/M is a registered trademark of Digital Research Inc.



Z80 second

processor with

CP/M business

One is Animator, an award winning debugging tool which enables you to identify programming errors quickly and easily.

The other is FORMS 2, which helps you to write your own interactive programs in COBOL.

With all these sophisticated features, the Z80 package is exceptional value for money. Indeed, bought separately the programs and languages could cost as much as £3,000.

See the Z80 at work.

The Z80 second processor is designed to be used with the BBC Micro Model B incorporating a Series 1.2 Machine Operating System and linked to a dual 80-track disc drive, a printer and monitor.

Ask your BBC Micro dealer to show you just how far it can go in the world of serious business computing.

For your nearest dealer, ring 01-200 0200.

Technical specification.
The Z80 has a 64K Random Access Memory, running CP/M 2.2 which provides approximately 55K bytes of RAM for user programs.

It operates at a clock rate of 6MHz.
Power supply is integral. Height,
70mm.Width, 210mm.
Depth, 350mm.

The BBC Microcomputer System.

Designed, produced and distributed by Acorn Computers Limited.

BRITAIN'S SOFTWARE by the ASP Market Research Group MOM-ARCA Legend **CBM 64 (1)** Sinclair 1 Valhalla 1 Match Point Spectrum (2) M. House Spectrum (2) Spectrum (3) 2 Mugsy 2 Sabre Wulf **Ultimate**

- 3 Fighter Pilot
- 4 Lords of
- Midnight 5 Trashman
- 6 Beach Head
- 7 Frak
- 8 Jet Set Willy
- 9 Son of Blagger
- 10 Tornado Low Level
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- Spectrum (-)
- Spectrum (-) **CBM 64 (4)** CBM 64 (1)
- **BBC (9)**
- Spectrum (5) **CBM 64 (6)**
- Spectrum (-)

- 3 War of the Worlds
- 4 The Hobbit
- 5 Fall of Rome
- 6 The Inferno
- 7 Sphinx Adventure

9 Mastermind

Adventure

- 8 Aviator
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- Spectrum (3)
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- BBC (-)
- CBM 64 (-)

CBM 64 (-)

Compiled with the assistance of Britain's leading software distributors, including: Pinnacle, SDL, PCE, Websters, PCS and Software Centre.

SPECTRUM

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- 2 Mugsy
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- 5 Jet Set Willy
- 6 Code Name Matt 7 Night Gunner
- 8 Pystron
- Beanstalk
- 10 Bulls Eye
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- Digital Int. (-)
- 9 Jack & the
- Beyond (-)
 - Thor (-) Mastertronics (-)

- COMMODORE 64
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 - 3 Squirm
 - 4 Trashman
 - 5 Sheep In Space 6 Encounter
 - 8 Son of Blagger
 - 9Loco

10 Incredible Hulk

- Mastertronic (1) 2 The Election Game Mastertronic (4)
 - Mastertronic (3) Quicksliva (5)
 - Llamasoft (6)
 - HI-Tech (7) Alligata (-)
 - Aligata (-)
 - Adventure Int. (8)

DRAGON 32

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- 2 Hunchback
- 3 Ugh!
- 4 Dungeon Raid 5 Buzzard Balt
- 6 Dragon Chess
- 7 Mr Dig
- Digging
- 10 Devil Assault
- 8 Cuthbert goes
- 9 Cuthbert in the
- Jungle
- A & F Software (-)
- Ocean (1) Softek (2)
- Microdeal (7)
- Microdeal (-) Oasis Software (-)
- Microdeal (-) Microdeal (-)
- Microdeal (9) Microdeal (10)

Compiled by W. H. Smith and Websters. Figures in brackets are last week's positions.

VIC-20

- 1 Flight Simulator
- 2 Bewitched
- 23D Maze 3 Computer War
- = Wizard & the Princess
- 5 Tank Commander 6 Crazy Kong
- 7 Tower of Evil
- = Games Designer 9 Sub Commander 10M.L.A.B.A.T.E.T
- Ferranti Davenport (-) Imagine (-) Mastertronic (9)
- Creative Sparks (10) Melbourne House (-)
- Creative Sparks (-) Interceptor
- Micro (5) Creative Sparks (-) Galactic (-)
- Creative Sparks (-) Llamasoft (-)

- 1 Football Manager
- 2 Aviator
- 3 Snooker
- 4 Word Wise
- 5 Spectipede
- **6 Rubble Trouble** 7 Demolator
- 80 Man 9 Diamond Mine
- = Spitfire Command

= Chouls

- Addictive Games (1) Acorn (-)
- Visions (6) Computer
- Concepts (-) Mastertronic (2) Micropower (5)
- Visions (-) MRM (6)
- MRM (-) Superior
- Software (-) Micropower (3)

- 1 Allen Rain
- 2 Krypton Ordeal 3 Planet Raider 4 Black Crystal
- **6ZXDB Disassembler** Debug

5 Walk the Plank

- 7 Games 1K 8 Mothership 9 Espionage Island
- 10 Meteor Storm = Adventure
- CRL (4) Novus (2) Novus (2) Carnell (-)

Novus (5)

- Bug Byte (-) Sinclair (-) Sinclair (9)
- DK'Tronics (-) DK'Tronics (-) Bug Byte (7)

Spiders/ Simon/Granny Unexpanded Sord M5 £12.95

CGL, CGL Hse, Goldings Hill, Loughton, Essex IG10 2RR

In Spiders, you must move a little figure to the other side of the screen. The difficulty is that you are pursued by large, venomous spiders and you must avoid their webs. The idea is good and the characters are well defined. The only problem is that it's incredibly difficult to get a decent score, so you're left feeling frustrated and angry!

Simon is the M5 version of the electronic game. The object is to correctly repeat an increasing sequence of colours, numbers and sounds. This is a good

implementation but I found the original electronic game boring and this version didn't interest me either. I suppose you could get hooked if you like the original though.

In Granny, you are in control of the green man whose task is to get the old ladies across the busy road. The storyline is good but the sound and graphics could have been infinitely better.

These games are fun for the first few goes but would probably pall after that. It's a shame machine code was not used.) S.S.

instructions	50%
playability	60%
graphics	40%
value for money	50%



Pengi TI-99/4A £5

Stainless, 10 Alstone Rd, Stockport, Cheshire SK4 5AH

Pengi is an original game in which a small character is being chased by yetis. (Judging by the scenery, the action takes place on a mountain range.)

On the first screen, you must kill two yetis, in the second, four, and in the third, six, and so

To kill a yeti, you must use the space bar to push a block of ice at him. This isn't as simple as it sounds, because each block of ice must travel over at least one space before hitting a yeti. If an ice block is pushed into another ice block before moving over any spaces, it will shatter.

Things get really tough when the screen becomes very yetiinfested. Every time a yeti moves into a block of ice, the ice vanishes, and the more yetis, the less ice.

Only a very small portion of the screen is used to display the action. This, as well as the lack of sound, is probably to speed the game up, but it does not make full use of the TI's facilities.

However, very good graphics are used in the top half of the screen to show beautiful, snowcaped mountains.

instructions	70%
playability	70%
graphics	85%
value for money	60%



Cassette File Handling TI-99/4A £3.50

B. Jackson, 21 Rowan Way, New Balderton, Newark, Notts' NG24 3AU

An Extended BASIC cassette filing program for all those who have either been unable to master file processing or don't have the time or patience to produce their own routines. In some respects it is better than the Personal Record Keeping module, in others, worse.

For the price, I reckon it's very good value. Each file consists of up to 100 'cards', and each card 'y can contain up to four items of information. The name of a file can be up to 14 characters, and the names of the items of information can be up to 24 characters. Each item of information can be up to 23" characters, allowing you to store a greater amount of data per item than the 15 offered by the PRK module.

However, only four items per page places some restriction on, for example, an address book file. Among the options are Insertion, Deletion, Addition of items, and alphanumeric sorting by item. Documentation is sparse, but then little is needed for a program which is largely self-explanatory. For large files, however, cassette storage is impractical and rather risky, due mainly to the problem of shedding oxide and consequent drop-out. P.B.

85%
95%
85%
100%

Fun, and a bit more serious

Play the games... then try the utilities. But read what our reviewers have got to say first

Slot **Expanded** Sord M5 £5.95

Hill, Loughton, Essex IG10 2RR smooth animation?

adjusted accordingly to the result publishing as a magazine listing. of the reels.

You may be given the chance to Nudge or Hold as in the real version. I'm a terrible player and have sworn never to play this game, but in this version, I won money without even looking at the reels and in the end I was desperately trying to run out of

money with no success! Games shouldn't be too difficult but this is ridiculous.

Technically, the program is just better than awful. What CGL, CGL House, Goldings happened to sound effects and

I've always thought imple-Slot is an implementation of the menting gambling games on popular gambling game, One- computers was a waste of time armed Bandit. When it's loaded, since the attraction of the real the reels are drawn and you start thing was the thought of making with a fixed amount of credit, money and this program does When you press 1, the reels nothing to change my view. change - absolutely no Quite honestly, this program animation - and your credit is wouldn't even be worth

instructions	50%
playability	0%
graphics	10%
value for money	0%

Music Maker/ TI LUdo/ **Charset 1** TI-99/4A £5.95

PiKaDee, 35 Parker St, Preston, Lancs PR2 2AH

Three programs, the most outstanding of which is TI Ludo. It's worth the money for this alone. The game is for one to four players. The computer will participate if requested but, I warn you, it does have an uncanny knack of winning.

Music Maker is a brave attempt at a difficult program to produce, for creating tunes on the TI. Those you compose may be saved in files and loaded when you want to play them again. The example is a rendering of Lily the Pink.

The screen display shows two staves. Using the cursor keys, notes, from F below Middle C to F flat three octaves above this, may be entered. Complete! options are included to change mistakes and edit notes in memory. Tunes may be played as two or three note chords, or with a very effective echo.

Unless you have a basic knowledge of music, you'll find this difficult to understand and use.

Charset 1 contains character sets re-defined and their hexadecimal codes stored in DATA statements to use in your own programs.

instructions 80% playability 70% graphics 50% value for money 90%



You're a gourmet Splurge Eater On this grid, living in walled dens, are Splurges, which are tasty and apetizing. A feast is in store for you.

Wherever you walk around the grid, you destroy the squares you walk on. You can only walk on grid squares, so you need to plan your route.

Full instructions are given in the text. Beware the hidden danger — the guardian of the Splurges. Your life is in danger from him. He doesn't appreciate the Splurges being eaten so he won't let you get off lightly.

The game runs on any BBC with an O.S. of 1 or greater. The program is only 4K, so there's enough room for expansion on a tape system. You could animate the Splurges, using explosion characters, so that they appear to die away. You could add speech if you have a speech chip. If you know machine code you could speed the game up, as after grid 7 the response speed of the Splurge Eater slows down slightly.

Type in the first program and save it with the name SP-INTR. Then type in the second listing and save it with the name SPLURGE.

PROCedures

MAN lines 90-360 This PROCedure moves the Splurge Eater around the screen in response to keys pressed. It also animates the movement of the Splurge Eater's mouth and calls up the procedure to MOVE LINE when the TAB key is pressed.

This procedure also detects if the Eater has eaten a Splurge and if so it calls up EAT SPLURB. If the Eater is trying to move on to a blank square instead of a grid square, the procedure will not allow it to

move.

MISSILE lines 380-590 This PROCedure contains the logic for the missile to home in on you and the routine to make it move across the screen without destroying what is already there.

This routine does not work properly and will sometimes erase what is below it; this is no major problem but you may like to solve it. The homing routine from 400-500 works but could do with some improvement.

Set Up lines 610-850 This PROCedure draws up the grid and positions Splurges around the screen making sure two Splurges do not overlap.

The number of Splurges printed is calculated at line 740 using the difficulty number as the random number seed. This means each new game has different numbers of Splurges appearing on the same board and you don't get a steadily increasing amount of Splurges as you progress through the game.

FN READCH(X,Y) lines 870-910 This function calls up a machine code routine generated by PROC ASS. This routine is used a great deal so machine code was necessary. What it does is read the value of a character at the location provided by X and Y and return that value in C.

RILL lines 920-1000 This PROCedure generates the graphics and sound effects when the Splurge Eater is caught by the missile. One is deducted from the number of men you have left and then the board is set up again.

EAT SPLURB lines 1020-1060 This PROCedure is called when a Splurge is eaten. It generates a sound effect and adds 10 to the player's score.

New Board lines 1080-1210 This PROCedure is called when all Splurges have been eaten. It calculates the bonus, depending on the time taken to clear the board. The bonus is printed on the screen, the reward tune is played and the screen is animated together with the tune. As this happens every time a board is cleared the tune and display may get a bit

and display may get a bit tiring so if the space bar is pressed during the routine the music will stop.

The speed of the MISSILE is increased, the bonus added to your score and a new board set up.

Score Board lines 1230-1250
AGAIN lines 1270-1390 This
PROCedure is called at the end
of the game. It prints your score
and tells you if you have the
high score. It then asks you if

Wrap your lips around some tasty morsels. This exciting game by Kevin Boyd is well worth the time and effort of typing in. It's a hit!

MOVE LINE lines 1410-1500
This PROCedure is called up when the TAB key is pressed.
The routine moves the line the player is on one space to the left and deducts 5 points from the players score. The routine will

players score. The routine will not work if the player does not have enough points to pay for the move or if a Splurge is at the end of the line and would disappear if activated. If this happens a warning buzz will

sound.

ASS lines 1520-1610 This PROCedure assembles the machine code used by FN REACH. The routine takes up 90 bytes and is stored in variable memory at line 1530. DEATH TUNE lines 1620-1700 This PROCedure plays the death march at the end of the game before PROC AGAIN is

Sha

Variables

DEL% counter to determine speed of missile

SPEED determine speed of missile

LIVES% number of Splurge Eaters left

SC% score

HSC% high score BRD% board number

MAN% character used for Splurge Eater, used for animation of Eater's mouth

NB% flag set when new board is required

PX%,PY% Splurge Eater's X and Y co-ordinates on screen MX%,MY% missile's X and Y co-ordinates on screen

CR% contains value of character at location returned by FN READCH

OLDC% hold the value of character to which missile is about to move on, used to reprint character after missile has moved to another location

SPL% number of Splurges eaten ANM amount of colours used in setting up and animating grid

COL%() array holding possible colours for animation

L\$ used in MOVE-LINE procedure to hold contents of line being moved

Listing 1

on the grid !"

called.

2 REM ** SPLURGE 3 REM ** WRITTEN 4 REM ** KEVIN BOYD 5 REM ** 6 REM ** DEC 83 to JAN 84 ** 10 REM _DEFINE CHARACTERS & ENVELOPES 20 VDU23, 233, 153, 126, 24, 165, 165, 24, 126, 153, 23, 234, 66 ,126,24,102,102,24,126,66 30 VDU23,235,66,102,24,90,90,24,102,66,23,236,66,36, 24,66,66,24,36,66 40 VDU23,237,0,36,24,36,36,24,36,0,23,238,0,0,24,24, 24,24,0,0 50 VDU23,224,&3C18;&66E7;&3CE7;&0018; 60 VDU23,225,&DBFF;&FF99;&C381;&FFC3; 70 VDU23,226, &FEFE; &FEFE; &FEFE; &OOFE; 80 VDU23,227,&DBFF; &FF99; &FF81; &FFFF; 90 ENVELOPE1,8,1,-1,1,1,1,1,120,-4,0,-3,126,0 100 ENVELOPE2,1,100,127,100,1,1,1,100,-3,-2,-1,80,0 110 ENVELOPE3, 133, 8, 4, 8, 3, 1, 1, 126, 0, 0, -10, 126, 0 120 ENVELOPE4,1,0,0,0,200,200,200,0,-1,0,-126,126,0 130 ENVELOPE5,1,20,-2,1,10,5,10,30,-4,0,-5,126,80 140 REM _INTRO_ 150 MODE7 160 PROCTIT 170 C\$=CHR\$131+CHR\$157+CHR\$132:PRINTC\$'C\$"Hi SPLURGE eater ! Your job is to eat";:PRINTC\$; "all the SPLURGES

180 PRINTC\$"Unfortunatly as you move around the "C\$"g rid you destroy the grid squares "C\$"you walk on and as you can only "C\$"move onto grid squares you will need" 'C\$"to plan where you go very carefuly."

190 PRINTC\$C\$"All splurges are surrounded by 3"'C\$"si ded walls. At times two walls will"'C\$"overlap destroying any path into the"'C\$"SPLURGE. So a path mover has b

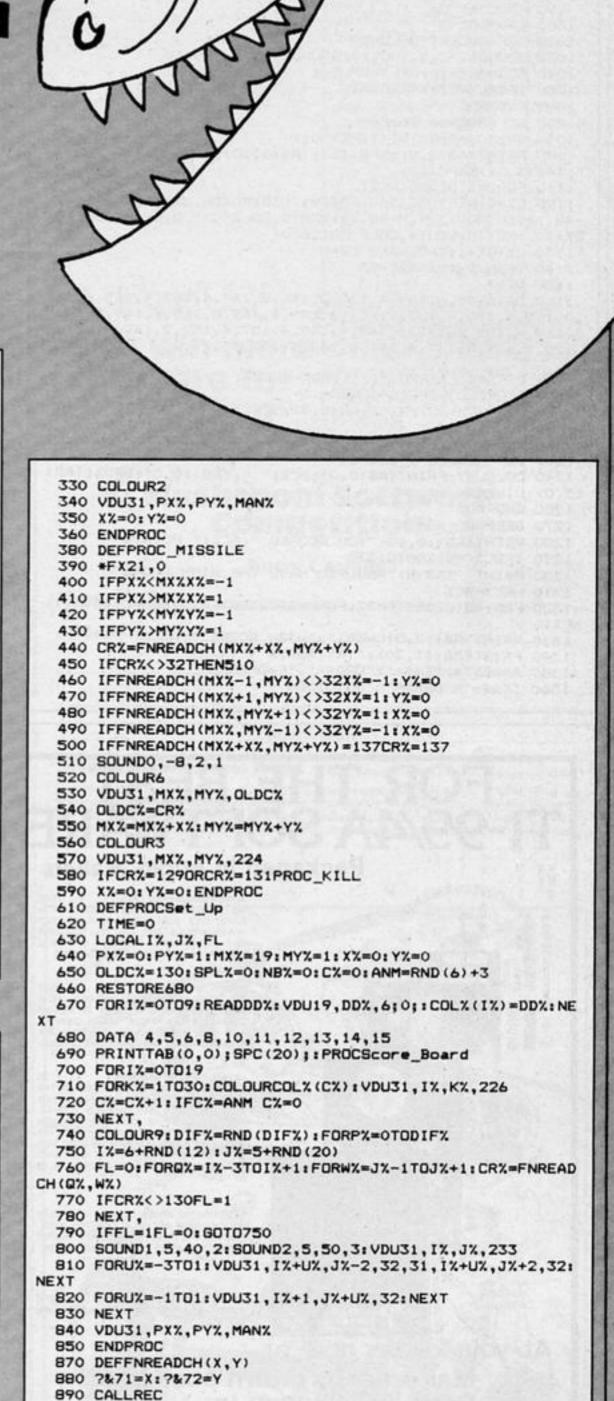
DGRAM

pen your hers on these!



Listing 2

```
L. 01
>L.
   10 *TV255
   20 DIMCOL%(9): HSC%=50
   30 PROC_ASS
   40 MODE2: VDU23; 8202; 0; 0; 0;
   50 DEL%=0: SPEED=4:LIVES%=3: SC%=0
   60 BRD%=1:MAN%=225
  80 PROCSet_Up
  90 REPEAT
 100 PROC_MAN
 110 PROCScore_Board
 120 IFNB%=1NB%=0:PROCNew_Board
 130 DEL%=DEL%+1: IFDEL%>=SPEED DEL%=0: PROC MISSILE
 140 UNTILLIVESX=0
 150 PROCDEATH_TUNE
 160 MODE7: PROC_AGAIN
 170 GOTO40
 190 DEFPROC MAN
 200 IFINKEY (-98) ANDPX%>0X%=-1
 210 IFINKEY (-67) ANDPX%<19X%=1
 220 IFINKEY (-105) ANDPY%<30Y%=1
 230 IFINKEY (-73) ANDPY%>1Y%=-1
 240 IFINKEY (-97) PROCMOVE_LINE
 250 IFX%=OANDY%=OTHEN320
 260 CR%=FNREADCH(PX%+X%,PY%+Y%)
 270 IFCR%=32GDTD320
 280 IFCR%=130SC%=SC%+1:SOUND1,2,210,1
 290 IFCR%=137PROCEAT_SPLURB
 300 VDU31,PX%,PY%,32
 310 PX%=PX%+X%:PY%=PY%+Y%
 320 IFMAN%=225MAN%=227ELSEIFMAN%=227MAN%=225
```



950 S%=233:FORI=250T0190STEP-8:SOUND1,-15,I,1:VDU31,P

900 C=?&75

930 LOCALS%

920 DEFPROC_KILL

940 SOUNDO,-15,7,15

970 FDRD=0TD1000: NEXT

960 SOUNDO, 1, 4, 20

X%, PY%, S%: S%=S%+1: FORD=OTO100: NEXT,

980 LIVES%=LIVES%-1: IFLIVES%=0ENDPROC

910 =C

BBC PROGRAM

```
990 PROCSet_Up
1000 ENDPROC
1020 DEFPROCEAT_SPLURB
1030 SOUND&102,3,100,10:SOUND&103,3,100,10
1040 SC%=SC%+10: SPL%=SPL%+1
1050 IFSPL%=DIF%+1NB%=1
1060 ENDPROC
1080 DEFPROCNew_Board
1090 BN=300-ABS(INT(TIME/50))
 1100 PRINTTAB(3,9); SPC(13); TAB(3,10); " BONUS = "; BN; "
"; TAB(3,11); SPC(13)
1110 FORD=1T01500: NEXT
 1120 C%=0: RESTORE1160: FORF=1T033: READH, G%: SOUND&11, 4, H
-48,16:SOUND&12,4,H-48,16:VDU19,COL%(C%),0;0;:FORG=1TO(
G%*70): NEXTG: VDU19, CDL%(C%), 6;0;
1130 CX=CX+1: IFCX=ANM CX=0
 1140 IFINKEY(0)=32F=33
 1150 NEXT
 1160 DATA149,6,149,4,137,2,141,2,149,4,169,4,165,4,149
,4,149,4,149,4,137,2,141,2,149,4,169,4,165,4,149,4,149,
4,169,4,185,2,177,2,169,4,149,4,157,4,157,2,149,2,157,4
,129,4,129,4,137,4,141,4,149,4,137,4,121,8
1170 DIF%=DIF%+RND(3)+1:BRD%=BRD%+1
1180 IFSPEED>OSPEED=SPEED-.5
1190 SC%=SC%+BN:PRINTTAB(0,0);SC%
 1200 PROCSet_Up
 1210 ENDPROC
 1230 DEFPROCScore Board
 1240 COLOUR7: PRINTTAB(0,0); SC%; " "; TAB(10,0); BRD%; TAB(
15,0); LIVES%
1250 ENDPROC
 1270 DEFPROC_AGAIN
 1280 PRINTTAB(10,10) "YOU SCORED "; SCX; " POINTS"
 1290 IFSCX<HSCXGOT01330
 1300 PRINT 'TAB(8) "AND YOU HAVE THE HIGH SCORE"
 1310 HSC%=SC%
 1320 FORI=0T0255STEP22:FORK=IT0255STEP22:SOUND1,5,K,1:
NEXT,
 1330 PRINTTAB(12,5) CHR$136"HIGH SCORE "; HSC%
 1340 PRINTTAB(11,20); "TRY AGAIN ? (Y/N) ";
 1350 A$=GET$: IFA$="Y"ORA$="y"ENDPROC
 1360 IFA$="N"ORA$="n"GOTO1380
```

```
1370 GOTD1340
 1380 CLS:PRINT ': *HELP
 1390 PRINT' "Look at all the nice chips you have in y
our computer why not use one today!":END
 1410 DEFPROCMOVE_LINE
 1420 L$="": VDU31,PX%,PY%,130,31,MX%,MY%,130: SOUND2,2,1
 1430 FORL%=OT019: CR%=FNREADCH(L%,PY%): L$=L$+CHR$(CR%):
 1440 IFLEFT$(L$,1)=CHR$1370RSC%<5SDUND3,-15,10,5:SDUND
3,-15,0,10: ENDPROC
 1450 L$=MID$(L$,2,19)+CHR$130
 1460 CR%=FNREADCH(PX%+1,PY%): IFCR%=137PROCEAT_SPLURB
 1470 COLOUR6
 1480 PRINTTAB(0,PY%); L$;
 1490 SC%=SC%-5
 1500 ENDPROC
 1520 DEFPROC_ASS
 1530 DIMSPACE 90: P%=SPACE: OS=&FFEE
 1540 FORIX=OTD2STEP2
 1550 COPTIX
 1560 . REC
 1570 LDA#31:JSR OS:LDA&71:JSR OS:LDA&72:JSR OS
 1580 LDA#135: JSR&FFF4: STX&75: AND&75: LDA&75: STA&75DIV&1
 1590 LDA#31:JSR OS:LDA#POS:JSR OS:LDA#VPOS:JSR OS
 1600 RTS: J: NEXT
 1610 ENDPROC
 1620 DEFPROCDEATH_TUNE
 1630 RESTORE1670:FORI=1T029:READCH,EN,PC,DU
 1640 SOUNDCH, EN, PC, DU
 1650 NEXT:FORI=1TD4000:NEXT
 1660 ENDPROC
 1670 DATA &0201,-10,81,16,&0202,-10,65,35,&0203,-10,53
,35,1,0,0,1,1,-10,81,12,1,0,0,1,1,-10,81,4,1,0,0,1
 1680 DATA &0201,-10,81,16,&0202,-10,61,35,&0203,-10,45
,35,1,0,0,1,1,-10,93,12,1,0,0,1,1,-10,89,4,1,0,0,1
 1690 DATA &0201,-10,89,8,&0202,-10,81,36,&0203,-10,65,
36,1,0,0,1,1,-10,81,8,1,0,0,1,1,-10,81,12,1,0,0,1,1,-10
 ,77,4,1,0,0,1
 1700 DATA &0201,-10,81,32,&0202,-10,61,32,&0203,-10,45
 ,32
```





COMPETITION

Prizes to a value of over £1,000 are offered by Mushroom Software in this week's competition.

20 first prizes of: Extended BASIC for the Commodore 64, together with Dune Buggy and Super Scramble, two new games.

With Dune Buggy, you have just spent a holiday in the African desert and you are returning through the Customs barrier. Unfortunately, you are carrying a fair amount of smuggled goods and as you reach the barrier tension becomes so intense that you 'flip' and burst through the barrier.

Customs officials do not take kindly to your attempted escape, and launch an attack on you with helicopters and fireballs. You have the choice of either firing at the offensive objects, or jumping over

Graphics on this game are particularly good, with the screen split seven times to give a realistic effect.

In Super Scramble, you are the pilot of a rocket ship, and your mission is to destroy both the rockets launching by shooting at them, and the fuel dumps on the ground by bombing. This mission will take you through seven screens (if you're good enough), with the final part being to bomb a giant mushroom.

Once again, special care has been taken with the graphics — a feature that Mushroom Software intends to keep with all the games it produces.

Add to these two games the Extended BASIC, and this makes each one of the 20 winners' packages worth a total of £32.50.

There are also 27 runners-up prizes of each of the two games.

You could be one of the prize- 31, 1984.

Here is your chance to win more than £30-worth of software for your Commodore 64, including

new titles Dune **Buggy and Super Scramble**

winners by just finding as many differences as possible in the two cartoons.

How to enter

Study the two cartoons — there are a number of differences between them. Circle the differences on carton B and seal the cartoon and coupon in an envelope. Write clearly the number of differences you found on the back of the envelope.

Post your entry to Mushroom Software Competition, Home Computing Weekly, No. 1, Golden Square, London W1R 3AB. Entries close at first post on Friday August

You may enter as many times as you wish, but each entry must be on an official coupon - not a copy and sealed in a separate envelope.

Important: please follow carefully the guidelines on entering incomplete coupons and entries in envelopes with no numbers on the back cannot be considered. If you are a winner, the coupon will be used as a label to send your prize so clear writing is essential.

The rules

Entries will not be accepted from employees of Argus Specialist Publications, Mushroom Software and Alabaster Passmore & Sons. This restriction also applies to employees' families and agents of the companies.

The How to Enter section forms part

of the rules.

Mushroom Software Competition

Entry Coupon

NameAddress _			100		
Address .	9 57	and sittle		207100	
I STEEL		- olley by		Mitter-unit in	法理

post code

Number of differences found

Complete clearly and fully - if you are a prizewinner this will act as a label. Post to Mushroom Software Competition, Home Computing Weekly, No. 1 Golden Square, London W1R 3AB. Closing date: first post, Friday August 31, 1984. Don't forget to follow closely the advice in the How to Enter section, including writing the number of differences on the back of your envelope.





Starfox by Paul Clarke

Are you a manic marksman? Do you spend hours glued to vour TV screen intent on eliminating aliens?

If so, this game is for you. It's a variation on the old arcade classic, Defender. This time you're also faced with the terrifying onslaught of an alien which fires at you unremittingly. This hostile aggressor gives you no rest, so use all your skill and experience to fight yourself out of this one.

Instructions are printed on screen and each alien counts for different points. Be warned: don't get too close to the UFO!

Starfox How it works 4-6 title page 40-170 main loop 910-940 tune subroutine 1000-1020 variables 3000-4010 UDGs 5000-5030 instructions 6000-6040 end of game

Starfox Variables

a,b your ship's co-ordinates x,y,c,d,e,f,g,h aliens' co-ordin-

ates a\$ land

b\$ land c\$ fire

sf lives

sc score

hi hi-score

Hunch How it works

1-1000 variables 1000-1200 set up screen 1500-6999 main loop 7000-7999 fifth level 8000 titles 9000 UDGs

Hunch Variables

sc score

hs hi-score fd.fa fireball's co-ordinates ad, aa arrow's co-ordinates posd, posa, your position

dir rope's position (level 5) a control variables — is there an arrow?

f control variables — is there a fireball?

lev level li lives

Hunch by Stephen Forde

Take pity on the poor old hunchback of Notre Dame. Help him ring the bell and escape Esmerelda, while avoiding flying missiles from the ground.

He deserves to be given a helping hand — no-one else will help him. Do your good deed for the day and feel better for it.

This is a multi-level version for 16 and 48K Spectrums, so your skills will be rewarded by new screens to conquer.

This game has great graphics and we're sure you'll find it's entertaining and fun to play.

nree

You get good value for money here — three great games for the price of one. They're alienzapping specials, with good graphics and imagination

Cells by Stephen Forde

Mutant cells will destroy the world unless you can stop them. An accident at a chemical factory has unleased on the unsuspecting world a horde of cells which is placing our lives in peril.

Shoot down the cells and save us all from destruction!

Cells

Variables ala, ald, a2a, a2d, a3a, a3d aliens' co-ordinates

posa, posd, your ships' coordinates

s score

hs hi-score

f control variable to check if you are firing x,y co-ordinates of stars

How it works

Cells is very straightforward and ideal for beginners to learn from. 1-1000 variables, instructions 1000 main loop 9000 UDGs

Cells

Hints on conversion

Spectrum BASIC is fairly standard, with some unique commands

INK set the writing colour BORDER set the border colour PAPER set the background colour

INKEYS check which key is pressed. Some micros use GET for this purpose

BEEP sound. Other micros may be able to enhance this game with load explosions.

DATA set graphics.

Listing for Starfox

- 1 LET hi=0
- 2 LET p=1
- 3 BORDER 0: PAPER 0: INK 7: CLS
- 4 GO SUB 3000
- 5 PRINT AT 3,6; INK 1;"

m"; AT 5,6; INK 3;"

"; AT 7,6; INK 5; " | | | | | | | | |

6 PRINT AT 9,9; INK 6;" 11,9

"; AT 6,6; INK 4;"

";AT 10,9; INK 1;"

"; AT 4,6; INK 2;"

AT 13,9; INK 5;"

...

7: PRINT AT 16,1; "DO YOU WANT INSTRUCTIONS (y/n)": INPUT a\$: IF a\$="y" OR a\$= "Y" THEN GO SUB 5000

- 9 CLS
- 20 GO SUB 2000
- 30 GO SUB 1000

40 PRINT AT 5,0; INK 5;b\$;AT 20,0; INK 4;a\$: LET a\$=a\$(2 TO)+a\$(1): LET b\$=b\$ (2 TO)+b\$(1)

- 41 PRINT AT 2,2; "SCORE: "; SC
- 42 LET i=INT (RND*14)+6: LET j=INT (RND*27)+2
- 43 PRINT AT 2,24; "HI: "; hi
- 45 PRINT AT 2,14; "SHIPS: "; sf
- 46 IF sf=0 THEN GO TO 6000

F

d kind

 Remember that in Spectrum programs, capital letters in PRINT statements should be added in GRAPHICS mode, unless they form words.

```
50 PRINT AT a,b; "AB"; AT a+1,b; " "; AT a-1,b; " "
   60 LET a=a+(INKEY$="6")-(INKEY$="7")
   70 IF INKEY = "0" THEN BEEP .01,45: PRINT AT a,b+2; INK 5;c$;AT a,b+2;"
                 ": IF a=x THEN PRINT AT x,y;"E": BEEP .3,45: LET sc=sc+10
 PRINT AT x,y;" ": GO SUB 1010
  75 IF a=c AND INKEY$="0" THEN PRINT AT c-1,d+1;" E": BEEP .01,40: PRINT AT c-
 ,d+1;" ": LET sc=sc+20: LET c=5: LET d=19: LET c$="_
  77 IF a=c AND b=d THEN PRINT AT a,b; "EE"; AT a+1,b; " "; AT a-1,b; " ": GO SUB
 910: PRINT AT a,b;" ": LET sf=sf-1: LET a=11: GO TO 50
  80 IF a=20 THEN PRINT AT a-1,b; "EE": GO SUB 910: PRINT AT a-1,b; " ": LET sf
sf-1: LET a=11: GO TO 50
  85 IF a=5 THEN PRINT AT a+1,b; "EE": GO SUB 910: PRINT AT a+1,b; " ": LET sf=
f-1: LET a=11: GO TO 50
  90 PRINT AT x,y; INK 5; "⊆"; AT x,y+1; " ": LET y=y-1
  95 IF y<=1 THEN PRINT AT x,y;" ": LET y=28: GO TO 90
 100 IF x=a AND y=b THEN PRINT AT a,b; "EE"; AT a+1,b; " "; AT a-1,b; " ": GO SUB
910: PRINT AT a,b;" ": LET sf=sf-1: LET a=11: LET b=2: PRINT AT a,b;"白色"
 110 PRINT AT c,d; INK 4;" I ";AT c-1,d;" ";AT c+1,d: LET c=c+1: IF c=19 THEN
LET c=c-1: LET d=d-1: IF d<=1 THEN PRINT AT c,d;" ": LET d=28
 =f-2: IF e>=20 THEN PRINT AT 19,3;" ": LET e=6: LET f=28
 130 IF a=e-2 AND INKEY$="0" THEN PRINT AT e-1,f+3;"E": BEEP .01,10: LET sc=sc
30: PRINT AT e-1,f+3;" "
133 IF a=e-1 AND b=f THEN PRINT AT a,b;"EE": GO SUB 910: PRINT AT a,b;" ": L
T sf=sf-1: GO TO 50
 135 PRINT AT g,h;"H";AT g+1,h+1;" ";AT g-1,h-1;" ": LET g=g-1: LET h=h-1
 140 IF g<=6 THEN PRINT AT g+1,h;" ": LET g=20: LET h=15
 145 IF a=g+1 AND INKEY$="0" THEN PRINT AT g+1,h+1;" E": BEEP .01,0: LET sc=sc+
5: PRINT AT g,h;" ": GO TO 50
147 IF a=g+1 AND b=h THEN PRINT AT a,b; "EE": GO SUB 910: LET sf=sf-1: PRINT A
a,b;" ": GO TO 50
148 PRINT AT i,j; INK 3;"₽": BEEP .01,0
150 IF RND<sf AND j>5 THEN PRINT AT i,4; INK 6;"___
TO j-4): BEEP .001,0: PRINT AT i,4;"
                                                              "( TO j-4): IF
i=a THEN PRINT T a,b;" EE"; AT a+1,b;" "; AT a-1,b;" ": GO SUB 910: LET sf=sf-
: PRINT AT a,b;" ": LET a=11: GO TO 50
155 PRINT AT i,j;" "
160 IF a=i AND INKEY$="0" THEN PRINT AT i,j;"E": LET sc=sc+100: PRINT AT i,j;
170 IF sc>hi THEN LET hi=sc
900 PAUSE p: GO TO 40
910 LET d$="22122111114"
920 LET e$="22225442212"
930 FOR 1=1 TO LEN d$: BEEP (VAL d$(1))/6, VAL e$(1): NEXT 1
940 RETURN
1000 LET as="EG___EGEGEG___EG___EGEG___": LET bs="EGEGEGEG_EGEGE
GEGEGEGEG
```

```
FGEGEGEG"
1001 LET a=11: LET b=2
1002 LET c$="
1003 LET sc=0: LET sf=3
1004 LET c=5: LET d=15: LET e=6: LET f=28: LET g=20: LET h=16
1010 LET x=INT (RND*13)+7: LET y=25
1020 RETURN
2000 PLOT 0,146: DRAW 255,0: DRAW 0,25: DRAW -255,0: DRAW 0,-25
2020 RETURN
3000 RESTORE : FOR x=USR "a" TO USR "j"+7: READ z: POKE x,z: NEXT x: RETURN
3010 DATA 128,192,224,255,255,255,62,0
3020 DATA 0,0,0,248,252,252,0,0
3030 DATA 24,36,66,153,153,66,36,24
3040 DATA 34,54,62,42,62,62,28,8
3050 DATA 17,68,17,149,34,0,72,1
3060 DATA 1,2,4,8,16,32,64,128
3070 DATA 128,64,32,16,8,4,2,1
3090 DATA 16,56,124,124,124,124,108,68
4000 DATA 28,62,107,62,73,34,73,34
4010 DATA 0,24,36,66,129,255,255,36
5000 CLS : PRINT TAB 10; " STAR FOX D"
5010 PRINT '"YOU are the last defender ship. "'"Your job is to destoy the aliens
                                                                       J=30"''"
                                           H=15"''"
                                                          I=20"''"
       SCORING"'" Q=10 Points"'"
11 . . 11
  D=100!"
5020 PRINT ''"DON'T get too close to the UFO"'"AND watch out for the STAR FOX!!"
: PRINT TAB 10; "GOOD LUCK!"
5030 PRINT #1; "Press a Key"
5040 IF INKEY$="" THEN GO TO 5040
5045 CLS
5050 PRINT AT 7,9; "CONTROLS:-"; AT 9,12; "6=DOWN"; AT 10,12; "7=UP"; AT 11,12; "0=FIRE
5060 FOR n=1 TO 20: BEEP .1, INT (RND*45): NEXT n
5070 CLS : RETURN
6000 PAPER 7: CLS : PRINT AT 10,10; BRIGHT 1; FLASH 1; INK 0; " GAME OVER "
6010 PRINT AT 11,8; INK 0; "YOU SCORED: "; sc; AT 12,16; INK 0; "Hi="; hi
6020 PRINT #1; "Press any Key"
6030 PAUSE 0
6040 PAPER 0: INK 7: CLS : GO TO 7
```

Listing for Hunch

```
1 LET sc=0: LET hs=0: INK 7: PAPER 0: BORDER 0: CLS : GO TO 8000
          2 CLS : LET lev=0: LET li=3 : LET acc=0
          3 CLS : LET fa=24
          5 LET ba=10
          7 LET a=0
          8 LET f=0
          9 LET dir=0
      20 LET fd=12: LET fa=27
      30 LET ad=12: LET aa=24
      40 LET posd=12: LET posa=1
   100 RESTORE : GO SUB 9500
   110 LET a=0: LET f=0
1000 IF li<=0 THEN GO TO 8000
1001 LET lev=lev+1
1004 IF lev=5 THEN GO TO 7000
1005 IF acc=3 THEN PRINT AT 1,8;" 9 9 9": FOR d=-30 TO 30: BEEP .005,d: NEXT d:
LET sc=sc+500: LET acc=0
1007 PRINT AT 7,0; INK 2; " AND ADDRESS AN
1008 PRINT AT 8,30; INK 2; " I"
1009 PRINT AT 6,0;" CORRIDOR ";lev
 1010 IF li<=0 THEN PRINT AT 9,11; "GAME OVER": FOR j=1 TO 200: NEXT j: GO TO 800
 0.
```

PROGRAMS

```
1011 PRINT AT 13,0; INK 2; "EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
 EFFFEFFFFFF
 EFFFFFFFF
 EEEEEEEEEEEE
 EEEEEEEEE!
 1015 PRINT AT 3,11; "SCORE "; SC
 1016 IF 1i=2 THEN PRINT AT 0,25; INK 4;" □ □ "; AT 1,25; INK 4;" □ □
 1017 PRINT AT 0,18; "LIVES: ": IF 1 i=0 THEN PRINT AT 0,25;"
 1018 IF 1i=1 THEN PRINT AT 0,25; INK 4;" " "; AT 1,25; INK 4;" " "
 1019 IF 1i=3 THEN PRINT AT 0,25; INK 4;" 8 8 8"; AT 1,25; INK 4;" 8 8 8"
 1020 PRINT AT posd-1,posa; INK 3;" 8 "; AT posd, posa; INK 3;" 8 "
 1030 PRINT AT 9,29;" © ";AT 10,29;" H";AT 11,29;" I"
 1040 IF lev>1 THEN PRINT AT 13,4; INK 2; "P"; AT 13,7; INK 2; "P"; AT 13,15; INK 2
 "₽";AT 13,23; INK 2;"₽";AT 13,26;"₽"
 1050 IF lev>2 THEN LET fa=24: LET a=1
 1060 IF lev>3 THEN LET aa=21: LET f=1: LET aa=21
 1070 PRINT AT 1,2; "BONUS "
 1079 IF acc=0 THEN PRINT AT 1,8;"
 1080 IF acc=1 THEN PRINT AT 1,8; "G"
 1081 IF acc=2 THEN PRINT AT 1,8; "@ @"
 1082 IF acc=3 THEN PRINT AT 1,8; " @ @ @"
 1100 PRINT AT posd,0;"
                                               ";AT posd,posa; INK 4;" E
 1200 BEEP .5,0: BEEP .5,0: BEEP .3,0: BEEP .4,5: BEEP .4,4: BEEP .4,0
 1499 REM MOVE
1500 PRINT AT 3,11; INK 5; "SCORE ": PRINT AT 3,11; INK 5; "SCORE "; SC
1501 IF li<=0 THEN GO TO 8000
1502 IF INKEY$="a" THEN GO TO 8000
1503 IF INKEY$="h" THEN PAUSE 0
1504 IF INKEY$="a" THEN GO TO 8000
1510 IF posa>=27 THEN BEEP .05,0: BEEP .05,2: BEEP .05,6: LET sc=sc+150: LET ac
c=acc+1: PRINT AT posd,posa;" "; AT posd-1,posa;" ": LET posa=2: GO TO 1000
1600 IF INKEY$="w" THEN BEEP .005,0: LET sc=sc+10: LET posa=posa+1
1605 IF posa>=1 AND INKEY$="q" THEN BEEP .005,0: LET posa=posa-1: LET sc=sc-10
1610 IF INKEY$="m" THEN PRINT AT posd, posa; " "; AT posd-1, posa; " ": PRINT AT
 posd-2,posa+2; INK 3; "E": BEEP .005,10: PRINT AT posd-3,posa+2; INK 3; "E": BEE
 .005,14: LET sc=sc+20: PRINT AT posd,posa;" ";AT posd-1,posa;" ": PRINT AT
 posd-2,posa+1;" ": PRINT AT posd-3,posa+1;" ": LET posa=posa+2
1630 LET fa=fa-1
1635 IF f<>0 AND aa<=1 THEN PRINT AT ad, aa; " ": LET aa=29
1640 LET aa=aa-2
1660 IF f>0 THEN PRINT AT ad, aa; " E "; AT ad, aa+2; " "
1665 IFa<>0 AND fa<=1 THEN PRINT AT fd,fa;" ": LET fa=26
1670 IF a=1 THEN PRINT AT fd,fa;" C "
6010 PRINT AT posd, posa; INK 3; " □ "; AT posd-1, posa; INK 3; " □ "
6990 IF lev>1 THEN GO TO 8500
6999 GO TO 1500
7000 CLS : PRINT AT 13,0; INK 2; "EEEEEEEEEEEEEE"; AT 14,0; INK 2; "EEEEEEEEEE
";AT 15
,0; INK 2; "EEEEEEEEEEE"; AT 16,0; INK 2; "EEEEEEEEEEEE"; AT 17,0; INK 2; "EEE
7001: PRINT AT 13,21; INK 2; "EEEEEEEEEEEEE"; AT 14,21; INK 2; "EEEEEEEEEE";
AT 15,21
; INK 2; "EEEEEEEEEEE"; AT 16,21; INK 2; "EEEEEEEEEEEE"; AT 17,21; INK 2; "EEE
EEEEEEE
7002 PRINT AT 21,0; INK 7;" RESCUE ESMARELDA"
7003 PRINT AT 17,11; INK 7; "^^^^
7004 LET posa=2: LET posd=12: LET dir=0
7005 PRINT AT 1,0; INK 2;"
7006 LET dir=0
```

```
7007 IF li=0 THEN GO TO 8500
7008 PRINT AT 11,29;" □";AT 12,29;" ""
7010 IF posa<=28 AND INKEY$="w" AND posa<=28 THEN BEEP .005,0: LET posa=posa+1
7011 IF dir<>1 AND posa=9 AND INKEY$="m" THEN PRINT AT posd, posa; " "; AT posd-1
,posa;" ": LET li=li-1: FOR r=posd TO 20: PRINT AT r,posa+3; INK 3;" □"; AT r-1,
osa+3; INK 3; "A"; AT r-2, posa+3; " "; AT r-1, posa+3; " ": NEXT r: BEEP 1,-5: BEEP 1
-10: GO TO 7000
7012 IF posa=9 AND INKEY$="m" THEN PRINT AT posd, posa; " "; AT posd-1, posa; "
: PRINT AT posd-2, posa+2; INK 3; "B": BEEP .005, 10: PRINT AT posd-3, posa+2; INK
;"H": BEEP .005,14: PRINT AT posd, posa;" "; AT posd-1, posa;" ": PRINT AT po
d-2,posa+1;" ": PRINT AT posd-3,posa+1;"
                                                ": LET posa=21
7013 IF posa>25 THEN CLS: INK 7: PRINT AT 10,7; "CONGRATULATIONS!"; AT 12,1; "YOU
HAVE RESCUED ESMARELDA!": PRINT " NOW GET HER OUT OF THIS ONE..!": FOR j=1 TO
300: NEXT j: LET sc=sc+1000: GO TO 3
7015 IF posa>=1 AND INKEY$="q" AND posa>=1 THEN BEEP .005,0: LET posa=posa-1
7016 IF posa<8 AND INKEY$="m" THEN PRINT AT posd, posa; " "; AT posd-1, posa; "
: PRINT AT posd-2, posa+2; INK 3; "E": BEEP .005,10: PRINT AT posd-3, posa+2; INK
3
;"H": BEEP .005,14: PRINT AT posd, posa;" "; AT posd-1, posa;" ": PRINT AT po
d-2,posa+1;" ": PRINT AT posd-3,posa+1;" ": LET posa=posa+2
7017 IF posa>10 AND posa<18 THEN LET li=li-1: FOR g=posd TO 20: PRINT AT g,posa
;" ="; AT g-1, posa; " ="; AT g-1, posa; " "; AT g-2, posa; " ": NEXT g: BEEP 1,-5: BEEP 1
-10: GO TO 7000
7020 IF dir=3 THEN LET dir=0
7021 LET dir=dir+1
7022 PRINT AT posd, posa; INK 3; " B "; AT posd-1, posa; INK 3; " B "
7025 IF dir=1 THEN FOR f=1 TO 10: INK 7: NEXT f: PLOT 132,155: DRAW -49,-75: IN
K Ø: PLOT 132,155: DRAW -49,-75: GO TO 7010
7030 IF dir=2 THEN FOR f=1 TO 10: INK 7: NEXT f: PLOT 132,155: DRAW -0,-76: INK
 0: PLOT 132,155: DRAW -0,-76: GO TO 7010
7035 IF dir=3 THEN FOR f=1 TO 10: INK 7: NEXT f: PLOT 132,155: DRAW 49,-75: INK
 0: PLOT 132,155: DRAW 49,-75: GO TO 7010
7050 IF dir=3 THEN LET dir=2
7999 GO TO 7010
8000 CLS : REM DEAD!
8001 IF sc>hs THEN LET hs=sc: LET sc=0
8009 PRINT AT 0,4; "CURRENT HI-SCORE IS "; hs
8010 PRINT AT 2,2; INK INT (RND*7+1);"
                           四 原 概念的 報 間 明短報 馬 同"
8011 PRINT AT 6,2; "This is the Spectrum version of the classic arcade game.
   Fight your way over the battlements to rescue your beloved Esmer
elda"
8012 PRINT AT 13,4; "Use the following keys: ": PRINT AT 15,7; " q=left"; AT 16,
7;" w=right"; AT 17,7;" m=jump"
8013 PRINT AT 20,6; "PRESS S TO CONTINUE"
8014 IF INKEY$="s" THEN GO TO 2
8499 GO TO 8010
8500 IF lev>1 AND posa=3 OR posa=6 OR posa=14 OR posa=22 OR posa=25 AND lev>1 TH
                                                                 ": BEEP 1,-5:
EN LET li=li-1: PRINT AT posd,0;"
BEEP 1,-10: PRINT AT posd-1, posa; " ": PRINT AT posd, posa; " ": LET acc=0: LE
T posa=2: GO TO 1010
8510 IF f<>0 AND posa=aa OR posa=aa-1 AND f<>0 THEN PRINT AT ad,aa;"
                                                                        ": PRIN
                                           ": LET li=li-1: BEEP 1,-5: BEEP 1,-
T AT posd,0;"
10: PRINT AT posd-1, posa; " "; AT posd, posa; " ": LET acc=0: LET posa=2: 60 TO
 1010
8520 IF a<>0 AND posa=fa OR posa=fa-1 AND a<>0 THEN LET li=li-1: PRINT AT posd,
                                   ": BEEP 1,-5: PRINT AT fd,fa;" ": BEEP 1,-
 Ø: "
10: PRINT AT posd-1,posa;" "; AT posd,posa;" ": LET acc=0: LET posa=2: 60 TO
 1010
 8998 GO TO 1500
```

ROGRAMS

```
9499 STOP
9500 FOR f=USR "a" TO USR "k"+7: READ a: POKE f,a: NEXT f
9510 DATA 0,BIN 00110000,BIN 00111000,BIN 00111000,BIN 0111111,BIN 11111100,BIN
 11111010,BIN 11111001,BIN 01111000,BIN 00111000,BIN 00111000,BIN 00111100,BIN 0
1100110,BIN 11000110,BIN 10000111,128
9520 DATA 0,BIN 01110010,BIN 01111010,BIN 11111101,BIN 10111010,BIN 01011101,BIN
 00110010,0
9530 DATA BIN 10000001,BIN 11000001,BIN 11100001,BIN 11100011,BIN 11100011,BIN 1
1110011,255,255
9540 DATA 16,32,64,255,255,64,32,16
9550 DATA 0,126,126,126,126,126,126,0
9560 DATA BIN 00011000,BIN 00111100,BIN 01111110,255,0,255,8,8
9570 DATA 8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8
9580 DATA 0,0,BIN 00011000,BIN 00111000,BIN 00011000,BIN 01011010,BIN 10011001,B
IN 00011000,BIN 00011000,BIN 00100100,BIN 01000100,BIN 01000100,BIN 01000100,BIN
01000100,BIN 11001100,0
9999 RETURN
```

Listing for Cells

```
2 BORDER Ø: PAPER Ø: INK 7: CLS : PRINT AT 10,9; PAPER 1; PAPER 4; INK Ø; FLA
SH 1; "Please wait": GO SUB 9000
   3 CLS : INK 7: BORDER Ø: PAPER Ø
                      BBBCELLSBBB": PRINT " By S.Forde & D.LAURIE"
   4 PRINT '"
   5 PRINT "Would you like instructions(y/n)": INPUT i$
   7 IF i $="y" OR i $="Y" THEN GO SUB 8000
   8 FOR e=0 TO 30: BEEP .005, RND*20: PRINT AT 9,e; INK 4;" 8 ": BEEP .005, RND*
0: PRINT AT 11,e; INK 2; INK 2; " 5 ": NEXT e: PRINT AT 9,e;" ": PRINT AT 11,e
   9 FOR q=0 TO 30: BEEP .005, RND*20: PRINT AT 9,q; INK 4;" 8 ": BEEP .005, RND*
0: PRINT AT 11,q; INK 2; INK 2; " E ": NEXT q: PAUSE 20
  10 REM ***VARIABLES***
  13 LET a4a=1
  15 LET hs=0
  17 LET s=0: LET hits=0
  20 LET posa=10: LET posd=20
  30 LET a1a=INT (RND*30)+1
  40 LET a1d=5
  50 LET a2a=INT (RND*30)+1
  60 LET a2d=5
  70 LET a3d=5: LET a3a=INT (RND*29)+1
 100 LET f=0
 200 REM ***SET UP SCREEN***
 210 BORDER 0: PAPER 0: INK 7: CLS
 220 FOR f=1 TO 50
 230 LET x=RND*240
 240 LET y=RND*175
 250 PLOT x,y
 260 NEXT f
 265 PRINT #0; PAPER 2; INK 0;"
                                         CELLS
 300 REM ***MOVE!***
301 IF INKEY$="x" OR INKEY$="X" THEN PAUSE 0
302 PRINT AT 1,12; "HITS "; hits: IF hits=15 THEN PRINT AT 10,10; "Game over": FO
R q=1 TO 15: NEXT q: GO TO 1000
303 PRINT AT 1,20; "HI-SCORE "; hs
305 PRINT AT 1,2; "SCORE ";s
307 PRINT AT 5,0;"
310 IF posa>3 AND INKEY$="1" THEN LET posa=posa-2
320 IF posa<27 AND INKEY$="2" THEN LET posa=posa+2
330 IF INKEY$="0" THEN LET f=1
400 BEEP .005,1: PRINT AT posd, posa; INK 5;" EF "
410 PRINT AT ald, ala;"
420 LET a1d=a1d+1
```

```
430 LET ala=ala+1
440 PRINT AT ald, ala; INK 2; " 5 "
450 IF ala>25 THEN PRINT AT ald, ala; " ": LET ala=1: GO TO 300
460 PRINT AT a2d, a2a; "
470 LET a2d=a2d+1
480 BEEP .005,2: LET a2a=a2a-1
490 PRINT AT a2d, a2a; INK 4; " 8 "
491 PRINT AT a3d, a3a; "
493 LET a3d=a3d+1: PRINT AT a3d,a3a; INK 6;"□"
496 LET a4a=a4a+1: PRINT AT 4,a4a; INK RND*6;" = "
500 IF a2a<3 THEN PRINT AT a2d, a2a;" ": LET a2a=24: GO TO 300
510 IF ald>19 THEN PRINT AT aid,aia;" ": LET hits=hits+1: LET ald=5: GO TO 3
520 IF a2d>19 THEN PRINT AT a2d, a2a; " ": LET hits=hits+1: LET a2d=5: GO TO
300
530 IF a3d>18 THEN LET hits=hits+1: PRINT AT a3d,a3a;" ": LET a3d=5: LET a3a
=INT (RND*29)+1: GO TO 300
540 IF a4a>28 THEN LET a4a=1: 60 TO 300
550 IF f=1 AND posa=a4a THEN PRINT AT 4,a4a;" Q": LET a4a=1: LET s=s+20: PRI
T AT 4,a4a;" □": BEEP .03,-10: PRINT AT 4,a4a;" ": GO TO 300
590 IF f=1 THEN GO TO 600
599 GO TO 300
600 LET old=posa+2
610 LET oldd=posd
620 LET oldd=oldd-2
630 PRINT T oldd,old; BRIGHT 1; "@H": PAUSE 5: PRINT AT oldd,old;"
 632 LET oldd=oldd-2
 650 BEEP .002,oldd: PRINT AT oldd,old; BRIGHT 1; "GH": PRINT AT oldd,old;"
 651 LET oldd=oldd-4
 653 LET oldd=oldd-4
 654 BEEP .002,oldd+2: PRINT AT oldd,old; BRIGHT 1; "GH": PRINT AT oldd,old;"
 655 LET oldd=oldd-4
 660 BEEP .002, oldd+10: PRINT AT oldd, old; BRIGHT 1; "GH": PRINT AT oldd, old; "
 665 LET oldd=oldd-2: PRINT AT oldd,old; BRIGHT 1; "GH": PRINT AT oldd,old; " "
 670 IF old-1=a1a AND oldd =a1d THEN LET s=s+15: BEEP .1,10: PRINT AT a1d,a1a;"
   ": LET a1d=5: LET a1a=INT (RND*29)+1: GO TO 300
 680 IF old-1=a2a AND oldd<=a2d THEN LET s=s+10: BEEP .1,7: PRINT AT a2d,a2a;"
  ";AT a2d,a2a;" ": LET a2d=5: LET a2a=INT (RND*29)+1: GO TO 300
 681 IF old=a3a OR old+1=a3a OR old-1=a3a AND oldd<=a3d THEN LET s=s+10: BEEP .
1,13: PRINT AT a3d,a3a;" ";AT a3d,a3a;" ": LET a3d=5: LET a3a=INT (RND*29)+
1: GO TO 300
 700 LET f=0
 710 GO TO 300
1000 IF s>hs THEN LET hs=s: FOR g=0 TO 7: BORDER g: BEEP .01,g-1: BEEP .005,g+1
: NEXT g: BORDER 0: FOR f=-50 TO 50: BEEP .005, f: NEXT f: CLS : PRINT "That's a
new high score!": PAUSE 100
1010 CLS : BEEP .4,2: BEEP .4,-3: PRINT "Another game(y/n)?": INPUT a$
1020 IF a$="n" OR a$="N" THEN STOP
1030 GO TO 17
8000 CLS : PRINT "
8005 PRINT '"(original version for the T199/4A by Paul Clarke)": PRINT "By
 S. Forde"
8010 PRINT '"After an accident at a chemical factory, a group of cells have
caped, and will destroy the
                              world..."
8020 PRINT "UNLESS..."
8030 PRINT '"You can stop them with your INTERGALACTIC MEGABLASTER (gun, to
you) "
                                      2-right"
8040 PRINT ''"1-left
                       0-fire"
8050 PRINT "
8500 PAUSE 0: GO TO 10: RETURN
9000 FOR f=USR "a" TO USR "j"+7: READ o: POKE f,o: NEXT f
9004 DATA 60,126,219,255,189,195,126,60
9006 DATA 60,66,165,129,195,189,66,60
9008 DATA 66,32,130,0,32,136,0,148
9010 DATA 32,0,0,32,0,144,0,129
```

PROGRAM

9019 DATA 1,1,35,35,127,195,255,126 9020 DATA 128,128,196,196,254,195, 255,126 9030 DATA 0,0,1,1,3,127,7,6 9040 DATA 0,0,128,128,192,254,224,96 9050 DATA 60,126,153,255,129, 231,126,60 9060 DATA 126,153,255,219,231,189, 129,126 9100 RETURN

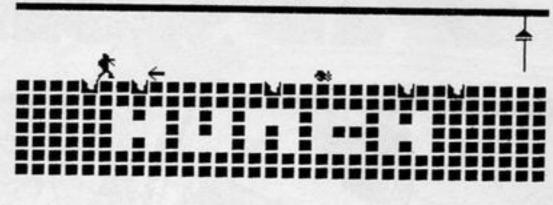
SCORE: Ø SHIPS: 3 HI: 85

BONUS A

LIVES:

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CORRIDOR 4



Screen dump for Hunch

Screen dump for Starfox

SCORE 135 HITS 14 HI-SCORE Ø

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Screen dump for Cells

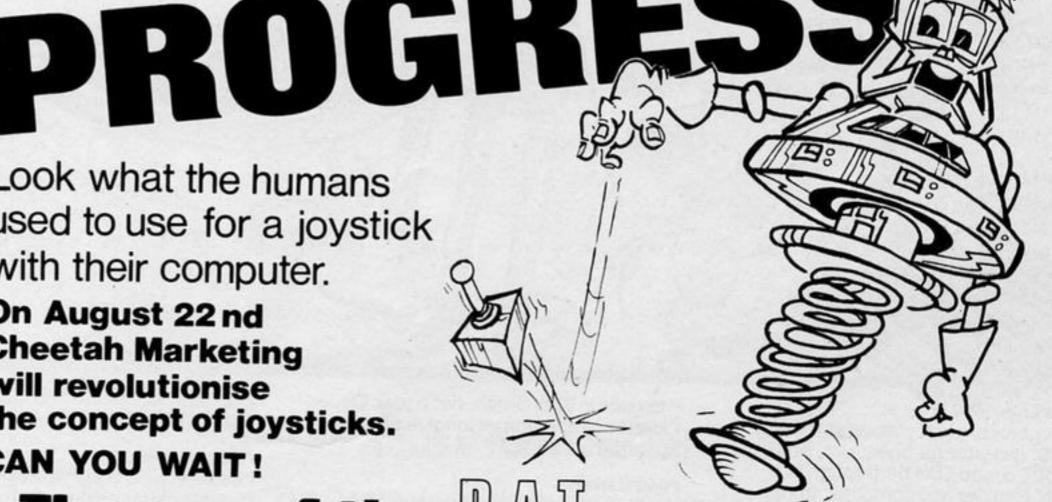
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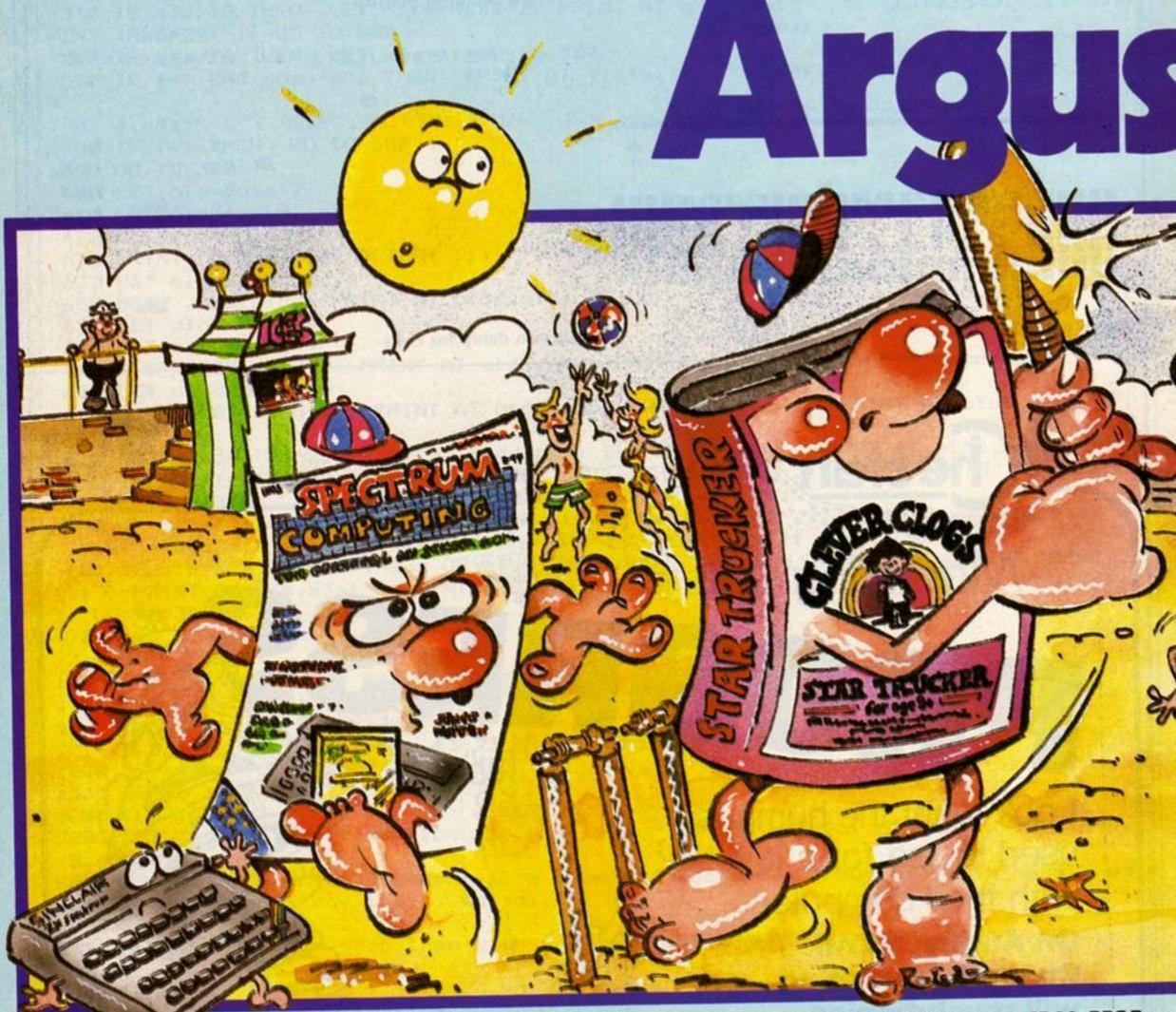
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Mr Dig **CBM 64 £8**

Microdeal, 41 Truro Rd, St Austell, Cornwall PL25 5JE

This is a version of Mr Do for the Commodore 64.

The aim is to kill four Meanies who move around the tunnels which you dig. Do this by throwing a ball or dropping an apple on them. Killing all the Meanies will send you on to the next screen.

After a while the Meanies mutate and turn into Miners who dig their own tunnels. If you eat the treat at the centre of the screen then the Meanies/Miners will become un-frozen. Killing five Letter Monsters will give you a free life.

In principle it sounds complicated although after some practice it becomes entertaining and very addictive.

Sound and graphics are both very good. There is clearly a close resemblance between this and the arcade version.

Loading is very fast - it only takes about three minutes. Microdeal has incorporated its own fast loading system and I find it's more reliable than that used by most other companies. So far I've not had any loading problems.

instructions	70%
playability	90%
graphics	85%
value for money	90%



Cassette 50 **CBM 64 £9.95**

Cascade Games, Suite 4, 1-3 Haywra Cresc, Harrogate HG1

This is one of those amazing tapes which offer you 50 games on one cassette, all are written in BASIC. They're fairly short and simple. A wide variety of subjects are included to suit all tastes.

The quality isn't very good. I found the games slow and boring and not very user-friendly. On one program the instructions gave me the wrong keys to use and I had to list the program to find out what to press. Another game was unplayable on a black and white TV because the colours used were very similar

shades of grey. The full list of faults is too long to mention here. Joysticks aren't utilized very often; the keyboard is used most of the time.

Brief instructions are supplied with the cassette. All directions are given on a menu screen with

each game.

Graphics and sounds would be very impressive if they were produced by a standard 1K ZX80 but as for the CBM 64 ... need I say more?

No loading problems were encountered - at least they've got something right.

instructions	10%
playability	10%
graphics	10%
value for money	5%



Star Trooper CBM 64 £5.95

Melbourne House, Church Yd, Tring, Herts HP23 5LU

Star Trooper is yet another version of the ever popular Space Invaders/Galaxian theme. The object of the game is to shoot the enemy invaders which move from side to side and down the screen.

You control a small man with a jet-pack on his back. Movement is very simple - your joystick will move your man while held in a direction. It would have been nice if inertia had been included. To shoot the enemy you press the fire button which releases a missile in the direction you are facing.

The graphics incorporate some good scrolling effects in the background and include quite good detail on your playing man. Other than this they are fairly standard.

There is quite an interesting rhythm playing when the program is waiting for you to start the game. However, the sounds used during play are nothing special.

Enclosed with the cassette is a card which you may fill in and send away so that Melbourne House can keep you informed of any new software. K.I.

instructions	30%
playability	50%
graphics	50%
value for money	40%



Games, games and more games

Here's a selection of games for Commodore, Spectrum and TI-99/4A. Read what our reviewers think before you buy

The Wall TI-99/4A £6

Stainless, 10 Alstone Road, Stockport, Cheshire

A wicked wizard has set you the useful feature if you intend using task of climbing castle walls. For the joystick option. every wall successfully scaled cannonballs, just to mention a Needs Extended BASIC.

Before attempting to bid for freedom you need to study their moves carefully. On each screen the attackers, and the way in which they travel, are different.

A collision loses a life, but for every 500 points there's a bonus life. The game ends when all lives

are lost and the score displayed. If you're lucky this may be high enough to qualify your name to be entered in the Hall of Fame.

Control is from keyboard or joystick. You are unable to start until the alpha lock is up, a

I can't say exactly how many points are awarded, but on each different screens there are to there are forces of spritely survive. Ten was the most I could adversaries poised to attack, manage and there are more. archers, dragons, witches on There's certainly enough variety broomsticks and multicoloured to keep you hooked on trying.

90%
85%
80%
90%



New Venture 48K Spectrum £5.95

Falcon Computing, 65 Earnsdale Rd, Darwen, Lancs

"If I were a rich man" announces the loading of a program that will test whether you can survive, in business. New Venture starts with full, simple instructions. You have £25,000 and the aim is to be able to afford the ultimate in luxuries - the priceless Falconmobile.

There are six retail businesses, four sites and seven options commence trading, adverts, visit bank manager, check bank statement, check or update stock, make insurance inquiries or quit. Your ZX printer can copy the list. The program contains a yearly inflationary figure that a £15,000 shop (where?) costs £30,000 in 2001.

As the game proceeds you are offered various luxuries, the acquisition of which gains points. Sudden burglaries, fires or accidents reduce your profits, unless insurance has been obtained. Your staff put in for a pay rise. At the end of each round, when a month's trading finishes, pages of trading levels of each saleable item are shown in graph and percentage form, then trade figures and a bank statement.

An interesting idea, with a PG rating - suitable for intelligent people above the age of 14.

90% instructions 80% playability 40% graphics 75% value for money



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Practise

makes

perfect

With reference to L. Treece's letter about Jet Set Willy (HCW 70), he claims that unless you remove an orange brick in the sheet, named 'The Banyan Tree', it is impossible to reach 'The Conservatory Roof'.

I have had my Spectrum 48K for about a year, and I bought Jet Set Willy about one month ago.

I play this game regularly, as it is my favourite game at the moment.

I have managed to find 67 rooms, and one of them is 'The Conservatory Roof'.

To get there is fairly easy, except for 'The Banyan Tree' which takes a lot of practice.

Once you get on the first pile of orange bricks, you have to wait until the razor goes past you on its way down, then jump left twice until you are in a safe place on the third pile of orange bricks.

I should point out that all of these movements should be done without a pause or you will be killed.

When all is clear, you can jump left again onto the staircase and go down. Then you can go left to enter the next screen called 'The Swimming Pool'.

All you have to do here is exit left, bringing you to a sheet called 'The West Wing'.

This screen is simple — just go up the ladder. If you keep going up (following the ladders going 'up right'), you should pass 'The West Wing Roof' and 'The Orangery'.

Still follow the ladder 'up right' and you will find 'The Conservatory Roof!

I hope this information helps L. Treece, and other Jet Set fans too!

K. Waters, Gravesend, Kent

Get the

picture

Whenever a new computer game is released onto the market, it usually has a fantastic looking cover on the package — which seems to cause ranting and raving about how good the game will be.

That is, until somebody plays the game.

Instead of hi-resolution graphical portrayals of the characters and objects, there are blobs seemingly portraying the would-be characters, with slow response to the joystick or keyboard.

Therefore, may I suggest a change in the law so that all games retailed must have an original picture of the game on the package.

Alternatively, an independent group of elected members, to write the reviews for the game that is printed on the package so there will be no biased reviews for the software.

Nick Baldwin, Sydney, Australia

Proud ZX81

owner

I have put pen to paper because I am fed up with people who think the ZX81 is old and unpopular.

I have owned a ZX81 since last Christmas, and I am more than happy with the machine.

A few days ago I went to a computer shop in my area, and I'm sure that the salesman didn't even know what a ZX81 was.

Steven Howlett, Swansea

Cheat for

Revenge

Thanks to M. Livingstone (HCW 73) for the code for Manic Miner.

Here is the cheat mode for Revenge.

Load the game, and type if (goat) at the start of the game, or anytime after.

This enables you to leave any screen by pressing any key, and you can go through to the last screen this way.

Mrs. J. Dugdale, Liverpool

Pricey

pens?

I feel that I must write and warn any potential buyers of the Commodore 1520 printer/plotter of the hidden expense involved when using this otherwise excellent machine.

The printer uses four small ball-point pens of different colours, and, these soon run dry.

The cost of renewing one set of these is a staggering £5.00.

At this rate, I'll have to save-up to be able to use the machine in the future.

Another point is that these pens are not sold individually, although one colour is used much more frequently than the other three.

I estimate that I have used about £1-worth of material in writing this letter alone.

I would be interested to hear any comments Commodore wishes to make. J. Holmes, Glasgow

Character

count

I would like to inform all TI-99/4A owners, that the TI does not just have one character set — it has five or six.

The first starts at CHR\$ (286), the cursor, and ends at CHR\$ (CHR\$ (382), the Filde.

The next starts at CHR\$ (542).

Vertical purple lines can be found at CHR\$ (416-423) and (161-167).

Could anyone tell me why this character set exists?

Mark Wallhead, Lincoln

Good

looking

I am the owner of a 48K Spectrum, and I have just worked out how to put a professional touch to all of my programs.

Before you type in your program, save these two routines:

10 BORDER 0: PAPER 0: CLS

PAPER 1; INK 6; FLASH 1; "Please wait"

30 INK 0 40 LOAD "" CODE: PRINT AT 0,0;: LOAD

SAVE "program name" LINE 10

In the next routine you design your own title screen. You can do this by using the normal PRINT and DRAW commands, or by using User Defined Graphics.

Make sure you include your own personal company name (if applicable), the author's name and the name of the program itself.

Also, leave the top line blank, as this is where the 'program: 2' comes up.

Once you have done this, RUN your program and SAVE it by entering SAVE "1" CODE 16384,6912.

Now write your program and SAVE it using SAVE "2" LINE 1.

If your program does not start at line 1, then change LINE 1 to whatever line you started at.

Now you are ready to try out your program. Rewind the cassette and enter LOAD "", and watch your own professional program load itself, and automatically run.

I would also like to know if anyone can help me. I have been trying for ages to try and animate my graphics properly as in games like Jet Set Willy.

If anyone knows how to do this, could they let me know.

Tommie McCall, Cramlington, Northumberland

Screen

extended

After spending a long time trying to achieve a screen of 25 x 30 (I could not understand the complications of other versions), I have compiled this program for the VIC-20 for all beginners with a 16K RAM pack.

When run, a load of 'garbage' will appear on the screen and will be wiped off soon after.

Unfortunately, you can't 'print' on the expanded screen, you have to 'poke' the characters on the screen.

Poke starts at 4096, and finishes where required.

Before writing in the main program, you have to move Basic to allow for the extended screen memory.

POKE 45,3: POKE 46,20: POKE 20*256,0: POKE 43,1: POKE 44,20: NEW

Now write in the main program

10 POKE 36866,25 20 POKE 36864,9

30 POKE 36867,60 40 POKE 36865,24

50 for A = 4096 to

60 POKE A, 32 70 POKE A + 33792,0

80 NEXT A

This is how the program works: 10 increases screen horizontally; 20 centre screen horizontally; 30 increases screen vertically; 40 centre screen vertically; 50 to 80 wipe off garbage on screen.

When the program has finished, by moving the cursor down it will also go back slightly so this program would be best mingled in with a game.

Andy Hopkins, Poole, Dorset

Working it

out

I saw a very useful program by Lincoln Woolsey (HCW 70) — a program that looked as if it had been NEWed, and you could get in by pressing a secret key.

I tried it, but it didn't work for me. The first part is right, that is add it to the beginning of your personal files etc., and saved with an auto run it will then load and appear to NEW itself.

This program should read:

10 POKE 23613,87

20 CLS

30 PAPER 0: CLS: FOR q=1 to 300: NEXT q: PAPER 7: CLS

40 PRINT at 21, 0; "(c) 1982 Sinclair Research Ltd."

50 if INKEY\$ = ""THEN GOTO 50 60 CLS

70 PRINT at 21, 0; FLASH 1; "K" 80 if INKEY\$ = "@"

80 if INKEY\$ = "@ THEN GOTO 100 90 GOTO 80

100 PRINT at 21, 0; FLASH 1; "Entry

One of the things he did was to put a "," instead of a ";" in lines 70 and 100.

On another point, could anyone tell me how to get past the first sheet of Jack and the Beanstalk.

I've tried many a time but for some reason I either fall of or a bird gets me.

Finally, I must congratulate Ultimate for that great game Sabre Wulf. I got it two days ago and already I've scored 36,870 which isn't bad for my standards.

I get your magazine every week and I think it's great. Philip Rawlins, Belhaven, East Lothian

Send your letters to Letters, Home Computing Weekly, No.1 Golden Square, London WIR 3AB. Don't forget to name your computer - the best letter could win £5-worth of software. Got a problem with your micro? We'll soon be starting queries page, so send your technical questions to Queries at the above address.

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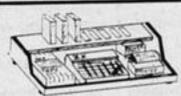


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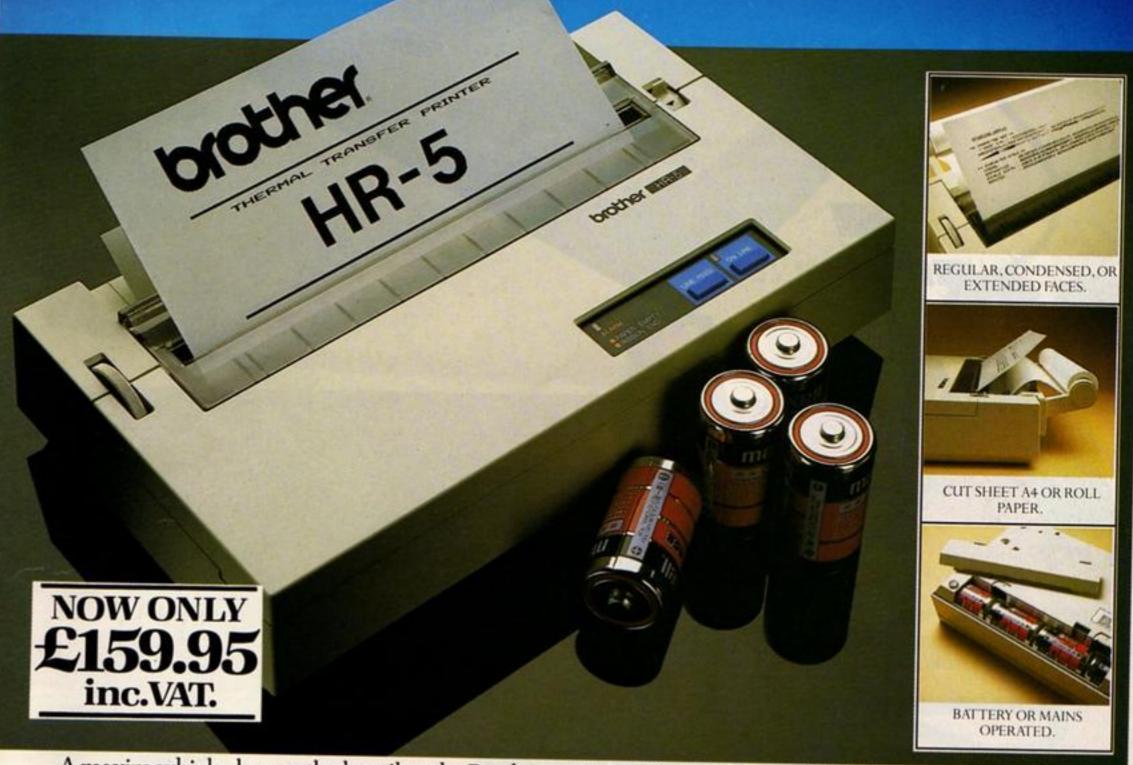
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